

DYNAMIC UNBALANCE COMPENSATION SYSTEM AND METHOD

ABSTRACT OF THE DISCLOSURE

RPS

A dynamic unbalance compensation system ~~is provided~~ that compensates for dynamic unbalance of a rotating assembly on a vehicle, such as a spacecraft, to compensate for the presence of a dynamic unbalance moment. The system includes a vehicle, such as a spacecraft, a rotational assembly mounted on the vehicle and rotatable about an axis of rotation relative to the vehicle, and one or more momentum devices mounted on the rotational assembly and generating a momentum vector component perpendicular to the axis of rotation. The one or more momentum devices generate a compensation torque during spinning of the rotational assembly so as to compensate for dynamic unbalance of the rotational assembly.

10081639 "002202
202203 62978001